Author Index

Arrendale, R. F., Gueldner, R. C., Chortyk, O. T. and Chumley, F. G. Characterization of the amino acids of antifungal peptides from *B. subtilis* by cold on-column injection capillary GC/MS, 249
Attwell, R. W., see Cresswell, M. A., 299

Barsanti, L., see Gualtieri, P., 327
Berlutti, F., see Thaller, M. C., 227
Berwald, L., see Tas, A. C., 333
Bolinches, J., Romalde, J. L. and Toranzo, A. E. Evaluation of selective media for isolation and enumeration of vibrios from estuarine waters, 151
Border, P. M., see Coughlan, M. P., 1
Bunch, A. W. The uses and future potential of microbial hollow-fibre bioreactors, 103

Chortyk, O. T., see Arrendale, R. F., 249
Chumley, F. G., see Arrendale, R. F., 249
Cochran, J. W., Yates, M. V. and Henson, J. M. A modified purge-and-trap/gas chromatography method for analysis of volatile halocarbons in microbiological degradation studies, 347
Cooksey, K. E., see Guckert, J. B., 139
Coughlan, M. P. and Kierstan, M. P. J. Preparation and applications of immobilized microorganisms: a survey of recent reports, 51
Coughlan, M. P., Kierstan, M. P. J., Border, P. M. and Turner, A. P. F. Analytical applications of immobilised proteins and cells, 1
Cresswell, M. A., Attwell, R. W. and Dempsey, M. J. Detection of cellulolytic actinomycetes using cellulose-azure, 299
Cronin, S. E., see Palmisano, A. C., 209

de Waart, J., see Tas, A. C., 333
Dempsey, M. J., see Cresswell, M. A., 299
Des Marais, D. J., see Palmisano, A. C., 209
Dunås, F. Multi Fermentation Screening System (MFSS): computerized simultaneous evaluation of carbon dioxide production in twenty-four yeasted broths or doughs, 303
Durfee, S. L., see Voorhees, K. J., 315

Ewings, K. N., see O'Connor, R. E., 199

Gorris, L. G. M., van der Drift, C. and Vogels, G. D. Separation and quantification of cofactors from methanogenic bacteria by high-performance liquid chromatography: optimum and routine analyses, 175
Gualtieri, P., Barsanti, L. and Passarelli, V. Harvesting *Euglena gracilis* cells with a nontoxic flocculant, 327
Guckert, J. B. and White, D. C. Evaluation of a hexane/isopropanol lipid solvent system for analysis of bacterial phospholipids and application to chloroform-soluble Nuclepore (polycarbonate) membranes with retained bacteria, 131
Guckert, J. B., Cooksey, K. E. and Jackson, L. L. Lipid solvent systems are not equivalent for analysis of lipid classes in the microeukaryotic green alga, *Chlorella*, 139
Gueldner, R. C., see Arrendale, R. F., 249

Hayward, A. C., see O'Connor, R. E., 199
Henson, J. M., see Cochran, J. W., 347
Hermansson, M., see Pedersen, A., 191
Hofer, K. G., see LaRock, P. A., 281
Höfle, M. G. Identification of bacteria by low molecular weight RNA profiles: a new chemotaxonomic approach, 235
Holzer, G. U., Kelly, P. J. and Jones, W. J. Analysis of lipids from a hydrothermal vent methanogen and associated vent sediment by supercritical fluid chromatography, 161

Jackson, L. L., see Guckert, J. B., 139
Jones, W. J., see Holzer, G. U., 161

Kelly, P. J., see Holzer, G. U., 161
Kenerly, C. M., see Seh, M. L., 121
Kierstan, M. P. J., see Coughlan, M. P., 1, 51
Kjelleberg, S., see Pedersen, A., 191

LaRock, P. A., Schwarz, J. R. and Hofer, K. G. Pulse-labelling: a method for measuring microbial growth rates in the ocean, 281

Malik, K. A. A new freeze-drying method for the preservation of nitrogen-fixing and other fragile bacteria, 259
Malik, K. A. Long-term preservation of some *Rhodospirillaceae* by freeze-drying, 273

O'Connor, R. E., Hayward, A. C., Ewings, K. N. and Symons, M. H. Application of multi-dishes to the characterization of proteolytic psychrotrophs from raw milk, 199
Ozaki, Y., see Ushijima, T., 219

Palmisano, A. C., Cronin, S. E. and Des Marais, D. J. Analysis of lipophilic pigments from a phototrophic microbial mat community by high performance liquid chromatography, 209
Passarelli, V., see Gualtieri, P., 327
Pedersen, A., Kjelleberg, S. and Hermansson, M. A screening method for bacterial corrosion of metals, 191
Pezzi, R., see Thaller, M. C., 227

Romalde, J. L., see Bolinches, J., 151

Schwarz, J. R., see LaRock, P. A., 281
Seh, M. L. and Kenerly, C. M. Protoplast isolation and regeneration and nuclear staining of mycoparasitic *Gliocladium* species, 121
Symons, M. H., see O'Connor, R. E., 199

Takahashi, M., see Ushijima, T., 219
Tas, A. C., Wieten, G., de Waart, J., Berwald, L. and van der Greef, J. Characterization of *Salmonella* and possible interfering strains using GC profiling and factor analysis, 333
Thaller, M. C., Berlutti, F. and Pezzi, R. *o*-Nitrophenol-β-D-galactopyranoside-urease-indole medium in the screening of enteric pathogens, 227
Toranzo, A. E., see Bolinches, J., 151
Turner, A. P. F., see Coughlan, M. P., 1

Updegraff, D. M., see Voorhees, K. J., 315
Ushijima, T., Takahashi, M. and Ozaki, Y. An improved medium for preparation of filterable *Escherichia coli* hemolysin, 219

van der Drift, C., see Gorris, L. G. M., 175
van der Greef, J., see Tas, A. C., 333
Vogels, G. D., see Gorris, L. G. M., 175
Voorhees, K. J., Durfee, S. L. and Updegraff, D. M. Identification of diverse bacteria grown under diverse conditions using pyrolysis-mass spectrometry, 315

White, D. C., see Guckert, J. B., 131
Wieten, G., see Tas, A. C., 333
Woodward, J. Methods of immobilization of microbial cells, 91

Yates, M. V., see Cochran, J. W., 347

Subject Index

Algal lipid, 139
Amino acid, 249
Antibiotic, 249
Archaebacteria, 161

B. subtilis, 249
Bacteria, 315
Bacterial lipid, 131
Bioreactors,
  hollow-fibre, 103
  uses of, 103
  potential of, 103
Biosensor applications, 23
Biosensors, 6
Biotransformation, 103

Capillary GC/MS, 249
Carotenoid, 209
Cell adsorption, 92
Cell entrapment, 94
Cell flocculation, 91
Cells, immobilized, 1
Cellulolytic, 299
Cellulose-azure, 299
Chemotaxonomy, 235
Chirasil-Val III™, 249
Chitosan, 327
Chloroflexus, 209
Chlorophyll, 209
Cold on-column injection, 249
Corrosion, 191
Cyanobacteria, 209

Electrochemical transducers, 13
Electrodes
  potentiometric, 13
  amperometric, 15
  conductimetric, 18
Enteric pathogen, 227
Escherichia coli, 219
Estuarine waters, 151

Ether lipid, 161
Euglena gracilis, 327

Factor-discriminant analysis, 333
Fatty acid methyl ester, 333
Flocculation, 327
Frozen dough, 303

Gas chromatography, 333
Gas measurement, 303
Gliocladium spp., 121
Gram-negative bacteria, 259

Hemolysin, 219
High-performance liquid chromatography, 175
Hollow-fibre bioreactors, 103
Hydrothermal vent, 161

Identification, 315
Immobilization, microbial cells, 91
Immobilized microorganisms, 51
  applications of,
    amino acids, 56
    antibiotics, 57
    biomass conversion, 58
    food industry, 59
    organic acids, 60
    protein production, 61
    steroid transformation, 61
    environmental decontamination, 62
Improved screening, 227
Iron, 191
Isoprenoid, 161
Iturin A, 249

Lipid, 161
Lipid analysis, 131, 139
Long-term preservation, 259, 273
Low molecular weight RNA profile, 235
Lyophilization, 259, 273

Marine bacteria, 191
Metal-link/chelation processes, 100
Methane bacteria, 175
Methane-utilizing bacteria, 347
Methanogen, 161
Methanogenic cofactor, 175
Microbial degradation, 347
Microbial growth rate, 281
Microbial mats, 209
Multidishes, 199
Mycoparasites, 121

Neutral lipid, 139
Nickel, 191
Nitrogen fixation, 62
Nitrogen-fixing bacteria, 259
Nuclei, staining of, 121
Nuclepore filter, 131
Numerical taxonomy, 199

Ocean, 281
Optical transducers, 18

Pattern recognition, 315
Phototrophic bacteria, 273
Piezoelectric transducers, 22
Proteins, immobilized, 1
Proteolytic psychrotrophs, 199
Protoplasts, 121
Pseudomonads, 199
Pulse labelling, 281
Purge-and-trap/gas chromatography, 347
Pyrolysis-direct chemical ionization mass spectrometry, 333
Pyrolysis-mass spectrometry, 315

Quantitative assay, 175

Rapid screening, 299
Rhodospirillaceae, 273
5S rRNA, 235
tRNA, 235

Saccharomyces cerevisiae, 303
Salmonella, 333
Selective media, 151
Supercritical fluid chromatography, 161

Taxonomic screening, 235
TCBS, 151
Thermophile, 161
Thermophilic actinomycete, 299
Transducers, 1

Vibrio anguillarum, 151
Vibrios, 151
Volatile halocarbon, 347